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Quality Engineering Test Report

SERIES: DCW03A 3W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:

A:DCW03A-05	**V1:+5V / 300mA**
	V2: -5V / 300mA
B:DCW03A-12	**V1:+12V / 125mA**
	V2: -12V / 125mA
C:DCW03A-15	**V1:+15V / 100mA**
	V2: -15V / 100mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:6.5~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: ±0.2% O/P: FULL LOAD	A: V1: -0% ~ +0% V2: -0.15% ~ +0% B: V1: -0% ~ +0% V2: -0% ~ +0% C: V1: -0% ~ +0% V2: -0% ~ +0%	P
3	LOAD REGULATION	I/P: 12VDC SPEC: ±0.2% O/P:MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.15% ~ +0% B: V1: -0.02% ~ +0.08% V2: -0.04% ~ +0.13% C: V1: -0.02% ~ +0.01% V2: -0.01% ~ +0.02%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -2.10% ~ +2.00% V2: -2.00% ~ +2.20% B: V1: -1.27% ~ +1.04% V2: -1.05% ~ +1.26% C: V1: -1.11% ~ +0.86% V2: -0.89% ~ +1.04%	P
5	RIPPLE & NOISE	I/P: 12VDC SPEC: 100mV O/P:FULL LOAD	A:V1:23mV V2:20mV B:V1:13mV V2:10mV C:V1:15mV V2:15mV	P
6	DC INPUT CURRENT	I/P: 12VDC SPEC: NONE O/P:FULL LOAD	A:0.32A	P
7	OVER LOAD PROTECTION	I/P: 12VDC SPEC: NONE O/P:TESTING	A:173% B:225% C:210%	P
8	O/P VOLTAGE ACCURACY	I/P: 12VDC SPEC: ±2% O/P:MIN. LOAD	A:V1:0% V2:0% B:V1:+0.48% V2:+0.78% C:V1:-0.63% V2:-0.31%	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
9	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.54mS	P
10	HOLD UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:0.21mS	P
11	EFFICIENCY	I/P: 12VDC SPEC: 74% O/P:FULL LOAD	A:78.1% B:83.2% C:80.6%	P
12	INSULATION RESISTANCE	SPEC:I/P--O/P 500VDC/100M Ohms MIN.	A:I/P--O/P >100M Ohms	P
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P-- O/P: 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P--O/P :<0.02mA	P
14	BURN-IN TEST	I/P:12VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 2 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P
15	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC AFTER 4 hrs BURN-IN O/P :FULL LOAD TA:25 °C		P
16	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHXD=31.8X12.2X20.3mm,PIN :0.5∅x3.8mm		

POSITION	SAMPLE	TEMP	T rise
CASE	DCW03A-05	39.7°C	14.7°C

DATE	SAMPLE	TEST RESULT	TEST	APPROVAL
1998.8.15	DCW03A-05	PASS	T.K.CHENG	MAX LIN
1999.1.28	DCW03A-12 DCW03A-15	PASS	T.K.CHENG	MAX LIN

PREVIOUS

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